

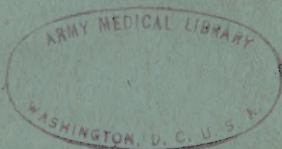
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## AERODYNAMICS

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-------------	---	-------------

### Compressibility

Lowell, A.L., Capt, AC	Compressibility Research by Professor Isao IMAI, Tokyo Imperial University	F-IR-96-RE (ATIG-151)
------------------------	--	--------------------------

### Compressors and Fans

Girntke	Calculations on the Stability of the Intake Fan 9-2426 103- 027 12	F-TS-531-RE
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### Control

Günter, Siegfried	The Control of Large Airplanes	F-TS-580-RE
Hafer, Xaver	The Spring Tab	F-TS-676-RE
Henschke, U. and Karlson, P.	A New Control System for Fighter Aircraft	F-TS-562-RE

### Cowling

Kuechemann and Weber	On the Flow Around Ring-Shaped Cowling Part III Thin Ring Profiles	F-TS-683-RE
Reichardt, H.	Cowling Rings with Cavitation Contour	F-TS-624-RE

### Dynamics

Brown, Sheldon W., Comdr, USN	Vibration and Flutter Methods Employed by the Japanese	F-IR-40-RE (ATIG-10)
Dietze	The Air Forces of the Harmonic- ally Vibrating Wing in Compress- ible Medium at Subsonic Velocity	F-TS-506-RE
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Liebe, Dr.	Investigations (Of Rudder Oscillations) of the Original Rudder Unit of the Ju-290. VI in the 8 M. $\phi$ Wind Tunnel of the Hermann Goering Institute for Aeronautics	F-TS-409-RE
Schwarz	Tables for the Calculation of Air Forces of the Vibrating Wing in Compressible Plane Subsonic Flow	F-TS-599-RE
Wielandt	Contributions to the Mathematical Treatment of Complex Specific Value Problems III: The Iteration Procedure in the Flutter Calculation	F-TS-904-RE
Pinsker, W.	The Aerodynamic Coefficients of Free Lateral Motion (First Partial Report)	F-TS-619-RE

### Flight Testing

Lindemann, H.	High Speed Tests on the He-162 Jet Fighter	F-TS-1037-RE
Lienarz	Comparison of High Speed Tests on Several Airplane Models	F-TS-1042-RE
	Questions and Answers Concerning Experiences with High Speed Flight	F-TS-677-RE
Morse, J.H., Comdr, USN	Flight Testing Methods of the Japanese Navy	F-IR-53-RE (ATIG-64)

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	Theory of Non-Stationary Gas Flow I, Laminar Steady Gas Waves	F-TS-763-RE

### Lift Distribution

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Saveliev, V.V.	Wing Weight Distribution Along Span	F-TS-573-RE

### Performance

Hennings, W.	Influence of Thrust Load and Thrust Variation on the Flight Performance of Jet Airplanes	F-TS-542-RE
--------------	--	-------------



### Performance (continued)

Hennings, W.	Report No. 124. Some Basic Considerations of Aircraft Performances with Various Types of Power Plants. (Heinkel Report)	F-TS-673-RE
Lippisch	Performance of Theory of Airplanes with Jet Propulsion	F-TS-685-RE
	Tests Regarding the Load Carrying Capacity of the Model 109-011 Jet Engine Housing Using a Bomb Load	F-TS-529-RE
Zobel, Theo.	Fundamentally New Means of Increasing Performance of High Speed Aircraft	F-TS-649-RE

### Pressure Distribution

Lemme, H.	Force Measurements and Pressure Distribution Measurements on a Rectangular Wing with Slotted Droop Nose, Trailing-Edge Flap and Split Flap or with Roll Flap	F-TS-647-RE
Lippisch, A. and Beushausen, W.	Pressure Distribution Measurements at High Speed and Oblique Incidence of Flow	F-TS-634-RE

### Stability

Hoch, Hans	Directional Stability by Means of a Limit Switch in the Neutralizing Control	F-TS-559-RE
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### Sweep Back

Busemann, A.	Swept-Back Wings at High Speeds	F-TS-629-RE
Guenter, Siegfried	The Influence of Fuselage and Wing Sweepback in the Range and Speed of Turbo-Jet Airplanes	F-TS-668-RE
Lemme	Swept-Back, Truncated Swept Back M Shaped Wings	F-TS-622-RE
Luetgebrune	Contributions to Sweep-Back Research	F-TS-684-RE
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### Sweep Back (continued)

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Weissinger	The Lift Distribution of Swept-Back Wings	F-TS-618-RE
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### Two-Dimensional Theory

Hoenl, H.	Two-Dimensional Wing Theory in the Supersonic Range	F-TS-916-RE
-----------	---	-------------

### Wind Tunnels and Wind Tunnels Research

Gilmore, J.H., Capt, AC	High-Speed Wind-Tunnel Research at Yokasuka	F-IR-56-RE (ATIG-70)
-------------------------	---	-------------------------

Groth	Evaluation of Density Fields Around Airfoils in Wind Tunnels by Means of Optical Interference	F-TS-607-RE
-------	---	-------------

Groth	Evaluation of Density Fields at High Subsonic Velocities by means of Optical Interference Measurements	F-TS-608-RE
-------	--	-------------

Wiesselsberger, C. and Hemke, Prof.	German Wind Tunnel Data 1. High Speed (Subsonic) Wind Tunnel of DVL 2. Wind Tunnel Wall Corrections in Compressible Flow	F-TR-102-RE
-------------------------------------	--	-------------

### Wings

Goethert, H.	High Velocity Measurements for a Wing of a Small Aspect Ratio	F-TS-646-RE
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## AEROMEDICINE

### General

Castor, John G. B., Capt, AC	List of Japanese Aero-Medical Research Publications, Content and Disposition	F-IR-91-RE (ATIG-241)
------------------------------	--	--------------------------

Luxenburger, Hans	Psychology of Flying	F-TS-596-RE
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Nicholson, Hayden C., Maj, MC	Hospitalization in the Japanese Army Air Force	F-IR-89-RE (ATIG-211)
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Reiher, H and Meister, F.J.	Sensitiveness of the Human Body to Vibrations	F-TS-616-RE
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Psychological Testing

The Small Reaction Apparatus

F-TS-752-RE

AERONAUTICAL RESEARCH

Helmick, P.F., Col, AC

Certain Reports of Aeronautical  
Research prepared by Prof. Tomijiro  
Moriya, Tokyo Imperial University

F-IR-106-RE  
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AIRCRAFT

Aircraft Descriptions, Handbooks, Manuals, etc.

German Aircraft Description by Model No.

Ar-234

Baker, Richard J., 1st Lt, AC

Evaluation of German Arado 234

F-TR-1108-ND

Baker, Richard J., 1st Lt, AC

Study of Arado 234 High Speed,  
Twin Jet, Reconnaissance Bomber  
Interim Report No. 1.

F-IM-1123A-ND

Report on Experiences with the  
Ar-234 B (Long Range Reconnaissance  
Airplane)

F-TS-541-RE

BV-155

Hall, E.N., Maj, AC

Blohm and Voss 155 B Fighter

F-TR-104-RE

FW-190

Ross, Charles A., 1st Lt, AC

Focke-Wulf 190-D9 Appendix to  
Handbook for FW-190 Airplane  
(Project No. NAD 52)

F-TR-1124-ND

Van Wart, F.D., 1st Lt, AC

Handbook for FW-190 Airplane

F-TR-1102-ND

Pursuit Airplane FW-190/BMW 801

F-TS-406-RE

He-162

Byers, John R., 1st Lt, AC

Interim Report No. 1 on the German  
Jet Fighter Heinkel 162

F-IM-1113A-ND

Günter, S. and Hohbach

History and Experiences of He-162  
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with Jumo-004 (Heinkel Report)

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Ju-388

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-----------------------------	--	--------------

Me-163

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	Description of the Me-163 B-0	F-TS-502-RE

Me-262

Baker, R.J., 1st Lt, AC	Me-262 Maintenance Handbook (Project No. NAD 29)	F-TR-1121-ND
Van Wart, F.D., 1st Lt, AC	Me-262 A-1 Pilot's Handbook	F-SU-1111-ND

TA-152

Operating Instructions for Pilot's 8-152 H-1, H-1/R11	F-TS-543-RE
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## German-Projected Designs

Baker, R.J., 1st Lt, AC	Focke-Wulf Designed Jet Fighter	F-SU-1114-ND
Eichner and Hohbach	Single Place Fighter with Turbo- Jet HeS-11 P-1078 (Heinkel Report)	F-TS-670-RE
Focke-Wulf Flugzeugbau G.m.b.H.	TU-Fighter with HeS-011 Engine Design and Production Study	F-TS-635-RE
Focke-Wulf Flugzeugbau G.m.b.H.	Description of Construction No. 272 Single Engine Jet Fighter with Rocket Unit	F-TS-460-RE
Guenther, S.	Single Place Fighter with Lorin Jet (Heinkel Report)	F-TS-674-RE
	The Lorin Duct as Aircraft Propel- ling Force, and Construction Des- cription No. 283 Duct Engine (Athodyd Fighter)	F-TS-523-RE
Heerdt and Hohbach	Single Place Fighter Fitted with DB-603 L.M. Engine, P-1076 (Heinkel Report)	F-TS-671-RE
Hohbach and Eichner	Night Fighter and Destroyer Fitted with Two HeS-011 Power Plants P-1079 (Heinkel Report)	F-TS-675-RE
	Description of Construction No. 1603 Dornier-Night Fighter	F-TS-468-RE
Messerschmitt A.G.	Description of the Project P 01-1114 Under Construction	F-TS-540-RE

## Gliders

Gilmore, J.H., Capt, AC	Information on Japanese Air Force Gliders	F-IR-108-RE (ATIG-183)
Kerr, W.M., Capt, AC	Interim Report No. 1 on the Gotha 242 Glider. Pilot's Flight Operating Instructions	F-IM-1118A-ND
Kerr, W.M., Capt, AC	Interim Report No. 2 on the Gotha 242 Glider. Maintenance Handbook (Project No. NTE-38)	F-IM-1118B-ND

## Japanese Aircraft Description by Model No.

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Groseclose, R.J., Capt, AC	Interim Report No. 1 on the Frank-1 (KI-84) High Speed Conventional Fighter	F-IM-1119A-ND
Groseclose, R.J., Capt, AC	Frank-1 (KI-84) Pilot's Handbook, Project No. NAD-25, Interim Report No. 2	F-IM-1119B-ND
Groseclose, R.J., Capt, AC	T-2 Report on Frank-1 (KI-84), T-2 Serial No. 302, Interim Report No. 3 (Project No. NAD-25)	F-IM-1119C-ND

### Jill-12

Maintenance Manual for Jill-12	F-TS-550-RE
--------------------------------	-------------

### Nick-II

Groseclose, R.J., Capt, AC	Nick-II (K-I 45) Japanese Night Fighter	F-TR-1143-ND
----------------------------	---	--------------

### Rob, C.

Dilworth, J.A., Capt, AC	Japanese Experimental Fighter Aircraft Rob (KI-64) (Kawasaki Aircraft Co., GIFU Branch)	F-IR-107-RE (ATIG-71)
Petaga, A.E., Maj, AC and Gilmore, J.H., Capt, AC	Japanese Rob (KI-64) Single Place Fighter with Two Engines in Tandem and Vapor Phase Cooling	F-IR-100-RE (ATIG-181)

### Zeke-52

Van Wart, E.D., 1st Lt, AC	Pilot's Handbook for Zeke-52 Airplane	F-TR-1101-ND
----------------------------	---------------------------------------	--------------

## Japanese-Projected Designs

Advanced Echelon FEAF	Description of Experimental Aircraft and Experimental Engines under Development by the Japanese Army and the Imperial Japanese Navy	F-IR-101-RE (ATIG-192)
-----------------------	---	---------------------------



## Design

Spangler, S.B., Capt, USN

Aircraft Design and Development

F-IR-41-RE  
(ATIG-27)

## Development - Heinkel

Helmbold, Heinrich B.

ATI Report 11-15 Aug 1945

F-TS-679-RE

## Flying Wings

Dilworth, J.A., Capt, AC

Japanese Tailless Aircraft and  
Theoretical Work on Spiral  
Instability

F-IR-109-RE  
(ATIG-177)

Nauber

Comparisons of the 8-299 and the  
GO P-60 All-Wing Airplanes

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Schmid

Tentative Description of Con-  
struction of Flying Wing 229

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Test Stand Experiments on Vibra-  
tions with the All-Wing Airplane  
Model DFS 39

F-TS-515-RE

Theories about Tailless Airplanes

F-TS-516-RE

## Production

Helmick, P.F., Col, AC  
and Richardson, M.B.

Aircraft Production Facilities  
and Methods at the Hitachi Air-  
craft Plant, Chiba. (Second Air  
Tech. Intell. Review-51)

F-IR-51-RE  
(ATIG-60)

## Rotary Wing Aircraft

### Bibliography

Wright Field Library,  
Reference Br.

Bibliography of Rotary Wing  
Aircraft (Prepared by Engineering  
Division, ATSC)

### Control

Hohenemser, K.

The Theory for the Control of the  
Blade Angle of the Helicopter

F-TS-1004-RE

Hohenemser, K.

Theory of Helicopter Control in  
Hovering Flight

F-TS-1006-RE

## Description

FA-223 Helicopter Interview with Prof. Focke and Inspection of Machine	F-TS-643-RE
--	-------------

## Dynamics

Hohenemser, Kurt, Dr.	Theory of Oscillations of Blades in the Plane of Rotation	F-TS-1005-RE
Sissingh, Gerhard	Air and Mass Forces on Helicopter Propellers with Inclined Hinge	F-TS-510-RE

## Performance

Hohenemser, K.	The Performance Characteristics of the Helicopter	F-TS-1001-RE
Hohenemser, K.	The Power Required of the Ideal Helicopter	F-TS-1045-RE
Hohenemser, K.	The Pull-up of the Helicopter	F-TS-692-RE
Sissingh	Investigation of the Influence of Rotor Diameter, Blade Solidity, and Blade Setting on the Thrust of a Rotor with Jet Propulsion	F-TS-689-RE
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Schoppe, G.	Static Thrust Tests of the Model Helicopter Rotor and Preliminary Research of the Model Helicopter Rotor	F-TS-1003-RE

## Stability

Hohenemser, K.	Lateral Stability of the Helicopter in Steady Forward Flight	F-TS-691-RE
Hohenemser, K.	Stability in Hovering of the Helicopter with Central Rotor Location	F-TS-687-RE
Hohenemser, K.	Longitudinal Stability of the Helicopter in Forward Flight	F-TS-688-RE
Sissingh	Contribution to the Dynamic Stabili- ty of Rotary Wing Airc. With Arti- culated Blades. Part I - General Principles	F-TS-690-RE
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--	--------------------------------------	-------------

### Sights

Rapp, Harry W.	Examination and Test of the ZFR4A German Gunsight	F-TR-1128-ND
----------------	---	--------------

Schmid, K.	Ultrahigh Frequency Sight Unit	F-TS-1063-RE
------------	--------------------------------	--------------

### Sighting Computers

	Construction Folder for Electrical Self Balancing Tele Transmission and Computing Bridges for Direct Current Voltage of 22 to 30 volts	F-TS-586-RE
--	--	-------------

## BEARINGS

Czerlinsbey	Report on Non Destructive Bearing Testing with Supersonic Waves	F-TS-606-RE
-------------	---	-------------

Hampp	Influence of Design Dimensions Upon the Operational Performance of Roller Bearings	F-TS-604-RE
-------	--	-------------

Morse, J.H., Comdr, USN	Ball Bearing Manufacture	F-IR-59-RE (ATIG-77)
-------------------------	--------------------------	-------------------------

Perret	The Effect of Bearing Play on the Load Carrying Capacity of Anti-friction Bearings	F-TS-595-RE
--------	--	-------------

## ELECTRONICS

### General

Hatter, George L., Col, AC	Miscellaneous Electronic Documents	F-IR-71-RE (ATIG-277)
----------------------------	------------------------------------	--------------------------

Henning, E.S., 1st Lt, AC	The High Frequency War. A Survey of German Electronic Development	F-SU-1109-ND
---------------------------	---	--------------

Henning	Dictionary of German Electrical Symbols. Contents: General Explanations, Transmission, General Symbols	
---------	--	--

Pippel	Direction of Currents on an Airplane Excited by Radiation	F-TS-508-RE
--------	---	-------------



## Infrared

Mueser, H.	Experiments to Find a "Radiation" Effect of Excited Centers in Lead Sulfide Light Resistors	F-TS-1841-RE
Pick, Heinz	The Photo-Electric Sensitivity of Lead Sulfide	F-TS-1038-RE

## Radio and Radar

Deibel, R.F., Lt Comdr, USN	Airborne Radar and Communication Equipment	F-IR-65-RE (ATIG-14)
-----------------------------	--	-------------------------

### Antennas

Eisenberg	Wide Band Yagi Antennae	F-TS-1029-RE
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Sudeck and Harmening	Aerodynamically Favorable Fixed Antennas	F-TS-917-RE
Sudeck	Development of an Aircraft Fixed Antenna Common to Long and Short Waves with Improved Radiation Efficiency	F-TS-755-RE
Sudeck	Radiation Improvement of Fixed Antennas by Feeding of the Antenna Circuit	F-TS-751-RE
Zisler, S.	Investigations on Omnidirectional Antennas on a Ju-88	F-TS-1067-RE

### Condensers

Linder, L., and Schniedermann, J.	The Effect of Self Inductance of Rolled Paper Condensers on their Impedance	F-TS-410-RE
Melhardt	Investigation of the Temperature Dependence, the Capacity, and the Loss Angle of Electrolyte Condensers for Low Temperatures	F-TS-576-RE

### Counter Measures

Braun and Stark	Research on the "Nurnberg" Procedure	F-TS-777-RE
Fleming, Dennis J., 2nd Lt, AC	American Radar Counter-Measures VS Japanese Flak and EW Radar	F-IR-103-RE (ATIG-203)

### Crystals

Kurzke, H. and Rottgart, J.	Experiments About Growing of Rochelle Salt Crystals	F-TS-482-RE
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## Interference

Bosch	Interference Potential Measurements on the Me-323 Series	F-TS-574-RE
Crone	Radio Interference by Electrical Charges and their Removal Part I	F-TS-570-RE
Hoh	Circuit for the Interference Free Reception of Remote Control, Release and Message Signals	F-TS-440-RE
Neubauer	Radio Reception Interferences by the Ignition System, Partial Report I: Evaluation of Various Spark Plug Shieldings in the Ultra-Short Wave Reception	F-TS-909-RE
Viehmann, H. and Schaffer, H.	Examination of Lines Variously Shielded to Avoid Radio Interferences	F-TS-519-RE
Viehmann, H.	Elimination of Radio Reception Interference in Aircraft (Second Intermediate Report)	F-TS-579-RE
Schaffer	Grounding of Airplanes as a Means of Carrying off Static Charges	F-TS-421-RE

## Radio Receivers

Becker and Schulze-Schwanebrugge	A Wide-Band Receiver of High Sensitivity for Measurement of Interference Voltages at 50 cm Wave Lengths	F-TS-501-RE
Messerschmitt, A.G.	Aircraft Radio Set 125 for Me-262	F-TS-584-RE

## Shielding

Neubauer, A., Schaffer, H. and Viehmann, H.	Coupling of Airplane Antennas with the Aircraft Wiring System and the Effect of the Various Shieldings of the Aircraft Wiring System	F-TS-524-RE
---	--	-------------

## Tubes (Vacuum)

Hobbs, Marvin	A Survey of Recent Japanese Vacuum Tube Developments	F-IR-130-RE (ATIG-254)
Groeber, H.	Corrosion Tests on Plated Electron	F-TS-954-RE
Hechtel, R.	Production of Electron Beams of High Current Density	F-TS-1035-RE
Pickering, W.H., Dr.	Magnetron Research in the Japanese Navy	F-IR-37-RE (ATIG-131)

## Wave Propagation

Hartsfield, Wm.L., Maj, AC	Long Range Forecast of Ionospheric Data as Applied to Propagation of Radio Waves	F-IR-69-RE (ATIG-244)
----------------------------	--	--------------------------

## Supply and Maintenance

Haller, Geo. L., Col, AC and Fleming, D.J., 1st Lt, AC	Supply and Maintenance of Japanese Air Force Electronic Equipment	F-IR-70-RE (ATIG-312)
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### EQUIPMENT

## Electrical Equipment

Deibel, R.F., Lt Comdr, USN	Electrical Equipment and Accessories for Japanese Aircraft	F-IR-66-RE (ATIG-43)
Diebel, R.F., Lt Comdr, USN	Japanese Naval Aircraft Electrical Systems and Equipment	F-IR-68-RE (ATIG-12)
Dirchsen, A.D., Maj, AC	Electrical Equipment for Japanese Aircraft	F-IR-67-RE (ATIG-135)
Fleissner, G. and Viebmann, H.	Method for Measurement of Very Small Electromotive Forces (Thermo E.M.F.'s) Through Slip Rings	F-TS-483-RE
	Description and Instruction for use of Motor Drive KM 18 and KM 30 and of the Universal Impulse Regulator IRU	F-TS-505-RE
Jensen, A.G., S/Sgt, AC	Investigation of Brush Wear on Electrical Rotating Machines	F-IR-73-RE (ATIG-195)
Jensen, A.G., S/Sgt, AC and Galanty, H., Pvt, AC	Japanese Air Force Electrical Equipment. Answers to Questions from (T-2) of Air Technical Service Command	F-IR-72-RE (ATIG-263)
	Description of Servomotor LRM 12	F-TS-489-RE
Messerschmitt A.G.	Investigation of the Aircraft Wiring System of the Me-323 (Interference Voltage Measurements)	F-TS-577-RE
	Specifications for Multipolar Socket F-TS-753-RE Sockets I and II (Type Stotz)	
Viehmnn, H.	DVL Plasticity Device (PPG2) to Determine the Deformation of Electric Cable Insulations Under Pressure and Heat	F-TS-1062-RE

## Fire Extinguishing

Beardsley, G.F., Capt, USN	Japanese Naval Aircraft CO <sub>2</sub> System Design, Report on-	F-IR-76-RE (ATIG-46)
Kühn, F.	Examination and Testing of Fire Alarm and Fire Extinguishing Devices for use in Aircraft	F-TS-775-RE



## Heating

Maier, Karl	Heating Apparatus for Airplanes. Part I The Karcher HFO Heating Apparatus. Part II Heating Apparatus for Fighters	F-TR-103-RE
-------------	--	-------------

## Instruments

Bachem, C.	Speed Measurement with the Doppler Effect of Ultrashort Waves	F-TS-764-RE
Buhl, Walter T. (Jack and Heintz Co.)	Investigation and Report of German Aircraft Accessories Patin Pilot	F-TS-657-RE
Deibel, R.F., Lt Comdr, USN	Aircraft Instruments	F-IR-75-RE (ATIG-25)
Gloeckner, H.	Investigation of the Hegenberger Blind-Landing Method	F-TS-1028-RE
	Preliminary Description of Patin Directional Gyro Control Unit PKZ 13	F-TS-1054-RE
Magnus, K.	Critical Stages in Gyros with Flexible Shafts	F-TS-556-RE
Magnus, K.	Procedures for Determining the Frictional Torque on Gyroscopes	F-TS-466-RE
Mauch	The Askania Three-Gyro Automatic Pilot Control	F-TS-1064-RE
Schaller, W.H., S/Sgt, AC	Aircraft Instruments and Automatic Pilots	F-IR-85-RE (ATIG-93)

## Life Rafts

The Individual Pneumatic Life Raft	F-TS-568-RE
The Individual Pneumatic Life Raft Fl 410201 Maintenance and Operation	F-TS-569-RE
Sea Equipment (Individual Pneumatic Life Raft)	F-TS-567-RE

## Miscellaneous

Thomas, D.E., Maj, AC	Miscellaneous Equipment for Japa- nese Aircraft	F-IR-81-RE (ATIG-122)
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## Oxygen

Beardsley, B.F., Capt, USN	Aircraft Oxygen Equipment - Japa- nese Navy	F-IR-50-RE (ATIG-59)
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### Parachutes

Knacke, T. and Isermann, R.	The First Ribbon Brake Parachute	F-TS-549-RE
Lohmann, H.	Investigations on the Strength of Impregnated Parachute Fabrics	F-TS-760-RE
Madelung, Georg	Report on the Works of the Para- chute Department (Graf Zeppelin)	F-SU-1107-ND
	Report of Research and Experiments on the High-Speed Parachute (Japan)	F-TS-430-RE

### Personal

Monke, Victor J., Capt, AC	Clothing for Aircrews of the Japa- nese Aircraft Plant, Chiba	F-IR-90-RE (ATIG-227)
----------------------------	--	--------------------------

### Pumps

Petaja, A.E., Maj, AC	Description and Operation of the Nakajima Speed-Density Pump	F-IR-97-RE (ATIG-179)
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### Servicing and Maintenance

Thomas, D.E., Maj, AC	Aircraft Servicing and Maintenance Equipment Used by the Japanese Air Force	F-IR-94-RE (ATIG-284)
-----------------------	---	--------------------------

## GUIDED MISSILES

### Aerodynamics

Oswatitsch	Pressure Recovery in Missiles with Reaction Propulsion at High Super- sonic Speeds (The Efficiency of Shock Diffusers)	F-TS-609-RE
Ludwig, H. and Weber, E.	The Effect of Swept-Back Control Surfaces upon Drag and C.P. Loca- tion of a Fin-Stabilized Long Pro- jectile at Supersonic Velocities	F-TS-697-RE
Kaiser Wilhelm Inst.	Aerodynamic Forces and Streamline Phenomena for Self-Propelled Mis- siles	F-TS-600-RE
Kraus, Dr. and Herrmann, B.	The Magnitudes of Boundary Layer Temperatures, Heat Transfer Coeffi- cients and Skin Temperatures of Ver- tically and Obliquely Launched A4 Missiles and of the A4b Glider	F-TS-603-RE
Kurzweg, Dr.	The Aerodynamic Development of Anti- aircraft Rocket "Wasserfall" (Cataract)	F-TS-615-RE

Description

Bramble, R.B., Jr.	German Guided Bomb PC-1400 Kg FX-1 (Fritz-X) (Project No. NTE-15)	F-SU-1132-ND
Henrici, Julius	Intelligence Report. Hs-117, "Butterfly"	F-TR-106-RE
Kramer, Max	Remote Controlled Dive Bombs	F-TS-551-RE

Guidance and Control

Hill, Landon, P., Capt, AC	A Summary of German Missile Control Methods	F-SU-1115-ND
Eichler	Model for the Gyro-Pendulum Investigation in the Ignition Test and on the Oscillating Table	F-TS-1069-RE
Schlier	Prevention of Roll of the A IV Rocket by Means of a Pendulum	F-TS-1016-RE
Schols, E.	Remarks about Geometric Structure and the Construction of the Boundary Curve of the Stability Range of Constants $a_0$ , $a_1$ for a Characteristic Equation of the Sixth Degree	F-TS-1018-RE
Schubert	A Second Model Device for Oscillation Stand Testing of the Effect of a Guide Beam During Combustion	F-TS-1053-RE
Schubert, R.	Model for Investigation of the Pilot Beam in a Propulsion Test and on the Experimental Testing Table	F-TS-1020-RE
Vieweg, R., Dr	Variable Circuit Reproductions	F-TS-504-RE

Parachute Recovery

Hardy, Harry K., 1st Lt, AC	German Developments in Parachute Recovery of Guided Missiles	F-SU-1103-ND
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## HIGH ALTITUDE FLIGHT

Casto, John G.B., Capt, AC	High Altitude Chambers III. Research Laboratories and Equipment	F-IR-92-RE (ATIG-274)
Benzinger, Theodor	Physiological Basis for the Construction and Use of Stratosphere Airplanes	F-TS-467-RE
Hansen, Asmus	Problems of High Altitude Flying	F-TS-459-RE



Wagner, Herbert	Report on the Construction of High Altitude Aircraft	F-TS-590-RE
Deinhardt	Increasing the Critical Altitude of the 222 E/F	F-TS-585-RE

## HYDRODYNAMICS

### Cavitation

Reichardt, H.	Concerning Cavitation Installations for Small Cavitation Numbers	F-TS-698-RE
---------------	--	-------------

### Towing

Hinterthan, W.	Towing of Turrets, Cabins, Cows in the Towing Basin of HSVA	F-TS-1023-RE
----------------	---	--------------

## ICING

### Deicing

Brown, Sheldon W., Comdr, USN	Japanese Airplane DeIcers	F-IR-74-RE (ATIG-22)
Hamacher	Basis for High Voltage Deicing	F-TS-768-RE
Ritz-Hentrich	Amount of Energy Needed for Deicing Equipment, Report No. 4 of the Experimental Group "Ice Accretion"	
Wieghardt, K.	Hot Air Discharge for Deicing	F-TS-919-RE

### Ice Formation- Measurement

Barner	Ice Formation Measuring Equipment Type C-160	F-TS-611-RE
Böttger, R.	Suitability of Disc and Cone for Ice Layer Measuring by Aerodynamic Drag	F-TS-767-RE

### Ice Formation and Prevention

Eck	Propeller Icing and Its Prevention	F-TS-517-RE
Eder	Antenna Icing and Its Prevention	F-TS-907-RE
Diem, M.	Contribution to the Problem of Ice Formation	F-TS-533-RE

### Ice Warning

Viehmann, H.	Further Experiences with the DVL Ice Warning Device	F-TS-613-RE
Viehmann, H. and Zinsstag	Investigation for Improvement of the DVL Ice Warning Device	F-TS-612-RE

### LANDING AND TAKE-OFF

Becker, Wilhelm	The Conductivity of Airplane Tail Wheel Tires and Its Variation in Practical Use	F-TS-961-RE
Darevsky, V. M.	Determining of Stresses in the Floor at the Landing Shock of a Seaplane	F-TS-592-RE
Messerschmitt A.G.	Nose Wheel Shimmy Me-262	F-TS-776-RE
	The First Land Airplane Catapult K1-12	F-TS-548-RE
Maier, E.	Comparison of Two Types of Nose Wheel Control	F-TS-956-RE
Schrode and Engert	Life of Tail-Wheel Tires, 350 x 135, at Various Landing Speeds	F-TS-925-RE

### MATERIALS

#### Ceramics

Mayer	Position of Thermo- and Electro-ceramic Research Carried out by the Messerschmitt Plant Leichbau Regensburg LTD	F-TS-428-RE
-------	---	-------------

#### Chemical

	Preparation of "Alkazid" M & DIK	F-TS-771-RE
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#### Fabrication

Pahlitzsch	Low Temperature Cooling in the Machining Process of Metals	F-TS-1065-RE
------------	--	--------------

#### Glues

Berger, K and Kuch, W.	Determination of the Useful Life of Synthetic-Resin Glues by Means of Viscosity Measurements	F-TS-693-RE
------------------------	--	-------------

Bertozzi, General	Special Features of Some German Airplanes, and Use of a Special Glue called "Kaurit"	F-TS-392-RE
Bock, Eugen	The Setting Process of Wood Gluing Part I	F-TS-1061-RE
Corry, William A. 2nd Lt, AC	Woods and Glues used on Japanese Aircraft	F-IR-80-RE (ATIG-109)
Küch, W.	New Synthetic-Resin Glues for Wooden Airframes	F-TS-694-RE

#### Light Metals

Bauer, R.	Colorimetric Iron Determination in Light Metals Using Sulfosalicylic Acid	F-TS-1017-RE
Bollenrath and Gröber	Creeping Behavior of Soft Aluminum-Magnesium-Zinc Alloys at Temperatures from 90° to 180°	F-TS-1058-RE
Naugle, C.A.	Nonhydroscopic and Noncorrosive Fluxes Employed in the Welding of Aluminum and Magnesium Alloys in Germany	F-TR-1137-ND
Nüsslein	Preliminary Investigation of the Use of Light Materials in Mono-coque Construction	F-TS-654-RE
Sheibley, John W., Capt, AC	Magnesium Production Methods in Japan	F-IR-113-RE (ATIG-155)
	Bibliography on Magnesium	
Sheibley, John W., Capt, AC	Research of Light Metal Works of the Sumitomo Chemical Co., Ltd., Niihama	F-IR-88-RE (ATIG-209)

#### Magnet Alloys

Galanty, Harold, Pvt, AC	Magneto-Strictive Materials	F-IR-125-RE (ATIG-287)
Galanty, Harold, Pvt, AC	Powered Magnetic Core Materials and a High Permeability Material for Casting	F-IR-118-RE (ATIG-260)
Galanty, Harold, Pvt, AC	Supplementary Report on Permanent Magnet Alloys	F-IR-93-RE (ATIG-283)
Galanty, Harold, Pvt, AC	New High-Permeability Magnetic Material	F-IR-115-RE (ATIG-180)

#### Metallurgical Research

Sheibley, John W., Capt, AC	Metallurgical Research at Tohoku Imperial University	F-IR-119-RE (ATIG-297)
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## Metals

Puffer, S.R. and Badger, W.L.	Evaluation of German Steels in United States Standards	F-TS-626-RE
----------------------------------	---	-------------

## Paints and Dopes

Corry, William A., 2nd Lt, AC	Japanese Aircraft Paints and Dopes	F-IR-82-RE (ATIG-129)
-------------------------------	------------------------------------	--------------------------

## Phosphors

Deutschbein, O.	On a Procedure for Obtaining Monochromatic Luminescent Radiation	F-TS-633-RE
Tomaschek, R. and Bauer, P.	Concerning Sensitized Phosphors I	F-TS-1807-RE

## Plastics

### Plasticizers

Löffler, Karl, Dr.	Ether Carboxylic Acid Esters as Plasticizers for Igelit Synthetic Rubber	F-TS-1036-RE
Löffler, Karl, Dr.	Experimental Comparison of the Forerun Fatty Acid Ester of Octanetetrol, of Hexanetriol and Pentaerythrite as Plasticizers of Igelit PCU	F-TS-1013-RE
Löffler, Karl, Dr.	Report Concerning Experiments with Several "Cold-Esters" from Leuna as Plasticizers for Igelit PCU	F-TS-1012-RE
Löffler, Karl, Dr.	Styrene Residues as Plasticizers for Igelit PCU	F-TS-1039-RE
Orth, Dr.	Apparatus for Determining Metallic Potassium Content in Potassium-Raw Plasticizer 32 Produced by a Conti- nuous Process.	F-TS-1019-RE
Weinbrenner	Igelit Plasticizing Agents Based on Ether-Carboxylic Acids, Thio- Ether-Carboxylic Acids and Thio- Ether Alcohols	F-TS-630-RE
Löffler, Karl	Igelit (Synthetic Rubber) Plasti- cizers Containing Sulfur Atoms	F-TS-1049-RE

### Polymerization

Jacobi, Dr.	Test on the Polymerization of Igelit PCU, Especially with new Emulsifying Agents	F-TS-1010-RE
Meyer	Research on Igelit Latex	F-TS-1011-RE

## Properties

Gary	Investigation of the Transparency of Bullet-Proof Glass	F-TS-699-RE
Löffler, Dr.	Thermal Stability of Igelit PCU Powder and Sheets	F-TS-1008-RE
Sigwart, H.	The Effect of Intrinsic Compressive Stresses on Crazeing and Strength Characteristics of Plexiglas M-33	F-TS-1051-RE
Vieweg	Electrical Properties of Transparent Plastic Materials (Organic Glass)	F-TS-1009-RE

## Plating

Blasberg, Friedrich	Directions for Using the FBM Hard Chromium Plating Baths. No. 1503/1	F-TS-388-RE
---------------------	--	-------------

## Testing

Testing Machines	F-TS-782-RE
------------------	-------------

## Wood

Beardsley, G.F., Capt, USN	Aircraft Veneer Plywood Laminated Wood and Adhesives	F-IR-84-RE (ATIG-38)
Küch, W. and Reim, W.	Strength and Hygroscopic Properties of Light Materials	F-TS-627-RE
Küch and Schneider	Strength Properties of Birch and Alder Laminated Wood	F-TS-641-RE

## METEOROLOGY

Georgii, Walter	Stratospheric Research	F-TS-425-RE
Regener, Enrich	The Structure and Composition of the Stratosphere.	F-TS-509-RE
Georgii, Walter	Aeronautical Meteorology of High Altitudes	F-TS-545-RE
Weickmann, Ludwig	Facts Established Through Meteorological Research of the Stratosphere	F-TS-465-RE
	Stratosphere Research	F-TS-427-RE

# ORGANIZATIONS, LABORATORIES AND RESEARCH STATIONS

Dirksen, A.D., Maj, AC	Inspection of Equipment Laboratories at Tachikawa	F-IR-79-RE (ATIG-107)
Lowell, A.L., Capt, AC and Sewell, R.G.S., 2nd Lt, AC	Japanese Organization for Scientific Research	F-IR-116-RE (ATIG-185)
Schussler, Karl	Ballistic Test and Measuring Equipment of the Hermann Goering Institute of Aeronautical Research	F-TS-404-RE
Spangler, S.B., Capt, USN	Underground Installations Near Yokosuka Naval Air Station	F-IR-44-RE (ATIG-51)
Pickering, W. H. Dr.	Japanese Organizations for Scientific Research	F-IR-111-RE (ATIG-132)

## PACKING

Bennett, Thomas G., Capt, AC	Report of Investigation Concerning Corrosion Control and Packaging Methods Used by Typical Japanese Manufacturers	F-IR-112-RE (ATIG-141)
------------------------------	---	---------------------------

## PHOTOGRAPHY

Dupre, P.	Report on the German Camera Type N.R.b. 35 x 25	F-TS-582-RE
Dupre, P.	Summary Description of a Night Aerial Camera	F-TS-581-RE
	Description and Operating Instructions for the Aerial Survey Camera 75 cm, 30 x 30 (Rb.75/30) FL 38 016	F-TS-422-RE
	Description and Operating Instructions for the Aerial Survey Camera 50 cm, 30 x 30 (Rb.50/30) FL 38 012	F-TS-423-RE
	Instructions for Use and Maintenance of the Stratoscope-Recording Camera	F-TS-522-RE
	Description and Instructions for Use and Maintenance of the Auxiliary Horizon Camera (Designation: M 174 d)	F-TS-429-RE



Schneider, Wilhelm and  
Wilmanns, Gustav

Agfacolor-New

F-TS-558-RE

Description and Operating  
Instruction for the Aerial  
Survey Camera 20 cm, 30 x 30  
(Rb.20/30) FL 38 007

F-TS-426-RE

#### POWER PLANTS

##### Combustion

Bension, Stuart W., Jr,  
Maj, Ord

Measurement of Velocity of  
Detonating Gas (Explosive)

F-IR-63-RE  
(ATIG-306)

Lichtenberger, F.

Temperature Indicator

F-TS-930-RE

##### Cooling

Bosch

Large Aircraft Engines with  
Cooling Blowers

F-TS-583-RE

Jung, R.

Report on Experiments to Deter-  
mine Resistance to Flow and Loss  
of Heat of the Light Metal Coolant  
Radiators Made by the Metall-  
Veredlungs-G.m.b.H.

F-TS-534-RE

Linke, W.

Heat Dissipation and Pressure  
Losses in Light Metal Radiators  
of Small Depths at Various Angles  
of Oblique Flow

F-TS-587-RE

Petaja, A.E.

Heat Exchangers and Engine  
Cooling (JAP)

F-IR-98-RE  
(ATIG-121)

Light-Metal Neral Radiators

F-TS-520-RE

##### Deaeration

Kasche

Research on Deaeration with the  
Centrifugal Filter

F-TS-553-RE

##### Engine Manuals and Descriptions

Deinhardt

High-Altitude Engine Jumo 222 E/F

F-TS-563-RE

Morse, J.H., Comdr, USN

General Information on Develop-  
ment and Test of the Ne-20

F-IR-54-RE  
(ATIG-65)

Characteristics of Engines 14 R-4  
14 R-5 (Gnome-Rhone)

F-TS-454-RE

Characteristics of Gnome-Rhone  
18 R-12 and 18 R-13 Engines

F-TS-393-RE

Instruction Manual for Jumo Spec-  
ial Power Plant 004

F-TS-538-RE

Technical Data on Jet Engine 109-011 A-0 (Heinkel)	F-TS-537-RE
---	-------------

Temporary Service Manual 109-004 B-1 and B-4 Engines, Containing the Most Important Operational and Servicing Data	F-TS-412-RE
---	-------------

Preliminary Installation Plan for BMW-018 Turbine Jet Engine	F-TS-431-RE
---	-------------

#### Evaluation

	Comparison of the Internal Combustion Engine with the Turbo-Jet Engine	F-TS-669-RE
--	--	-------------

Lutz, O.	Bases of Comparison of Jet Propulsion Units	F-TS-682-RE
----------	---	-------------

#### Exhaust Gas Measurement

Groff, H., Dr.	Exhaust Gas Measurements with Thermo-couples	F-TS-631-RE
----------------	--	-------------

#### Fuel Injection

Little, E.H.	Description of German Fuel Injection Systems	F-SU-1105-ND
--------------	--	--------------

#### Fuels and Lubricants

Richter	Development of a New Oxidation Procedure for Lubricating Oils	F-TS-923-RE
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Shayeson, Maurice W., Maj, AC	Japanese Army Research on Aviation Fuels and Lubricants at Fuchu	F-IR-48-RE (ATIG-57)
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Shayeson, Maurice W., Maj, AC	Japanese Army Research on Aviation Fuels and Lubricants, Tachikawa	F-IR-47-RE (ATIG-56)
----------------------------------	--	-------------------------

Siebeneck, Hans, Dr.	Tests for Lead in Lead Ethyl and Observations on the Volatility of Tetraethyl Lead	F-TS-560-RE
----------------------	--	-------------

Wenzel, H.	Development of a Testing Procedure in the Single-Cylinder Engine for Gumming Tendency of Aircraft Engine Oils in Piston Rings	F-TS-1043-RE
------------	---	--------------

Willich, N.	Results of Tests with Oxygen Carriers GM 1 (N <sub>2</sub> O) in Airplane Engines	F-TS-513-RE
-------------	---	-------------

Windisch, W.W.	Comparison of the German and Wright Field Methods for Determination of Polyisobutylene in Lubricating Oil (Project No. DP-151)	F-TR-1135-ND
----------------	--	--------------

Windisch, W.W.	Petroleum Abstracts from Microfilm of German Documents	F-TS-2-RE
----------------	--	-----------

	Development of Endurance Test Methods for Fuels in the NSU Engine	F-TS-759-RE
--	---	-------------

## Gas Turbine-Development

Robinson, W.	Intelligence Report. Development of a Gas Turbine with Generator and Utilization of Coal and Fuel for Gas Turbines	F-TR-105-RE
Wattendorf, F.L., Karman Mission, and Morse, J.H., USN	Development of Gas Turbine Propulsion in Japan	F-IR-57-RE (ATIG-72)

## High Temperature Materials

Kamps, Dr.	Conference on Ceramic Materials for Jet Propulsion Apparatus	F-TS-401-RE
Morse, J.H., Jr., Comdr, USN	High Temperature Alloys Used in Rocket, Jet and Gas Turbine Applications	F-IR-58-RE (ATIG-75)

## Ignition

Morse, J.H., Jr., Comdr, USN	Low Tension Ignition System	F-IR-60-RE (ATIG-78)
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## Jet Propulsion Development

Morse, J.H., Jr., Comdr, USN	Brief History of Jet, Turbine, and Rocket Development in Japan	F-IR-61-RE (ATIG-79)
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## Lubrication

Kasche	Oil Economy in the Jumo 222 Reduction Gears	F-TS-578-RE
Kasche	Rate of Oil Flow Through the Crankshaft at Various Locations of the Oil Inlets in the Piston Rod Pins	F-TS-565-RE
Wenzel, H.	Development of an Oil Testing Machine	F-TS-929-RE
Widmaier, O. and Nenninger, L.	The Effect of Additives on the Coking Tendency of Lubricating Oils	F-TS-953-RE

## Performance

Ullmann, K. and Wehner, H.	Investigation Into Increase in Output of Aero-Engines	F-TS-652-RE
Ullmann, K. and Wehner, H.	Investigations Into Power Output Increase of Altitude Aero-Engines (6th Report)	F-TS-653-RE

## Plating

Blasberg, F.	Hard Chromium Plating Equipment for Treating Cylinders	F-TS-389-RE
	Working Directions for the Chromium Plating of Exhaust Valves 9-801.311-770.12	F-TS-387-RE



### Ramjets

Pabst	GVD-Report 40, The Performance Values of Lorin (Ramjet) Engines with Full Ramming of Air	F-TS-514-RE
	The Lorin Duct as Aircraft Propelling Force, and Construction Description No. 283 Duct Engine (Athodyd Fighter)	F-TS-523-RE

### Rocket

Schaefer, K.	On the Thermodynamics of Rocket Propulsion I	F-TS-982-RE
--------------	--	-------------

### Superchargers

	Comparison Between the Gear-Driven Supercharger and the Exhaust-Driven Turbine in a High-Altitude Fighter	F-TS-552-RE
	Technical Data on Exhaust Gas Turbo-Supercharger 9-2426 (Heinkel)	F-TS-414-RE

### Tanks

Wehage	Storage Tests with Igelia Tanks	F-TS-1034-RE
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### Turbine Bearings

	Investigations Regarding Two Different Designs of Radial Supports for the Turbine Bearing of the Model 109-011 Jet Engine	F-TS-528-RE
--	---	-------------

### Turbine Blades

Girntke	The Laval Type Bucket Base of the Turbine Disc 109-001.150.13	F-TS-530-RE
Weske, John R.	Turbine-Grid Conference in Brunswick, Germany	F-TS-680-RE
	Present Status of Development of Blades for Units 004 and 011 and Development Trend for 003	F-TS-445-RE

### Turbo Development

Spangler, S.B., Capt, USN	GTPE, Turbo Supercharger, and Jet Engine Design and Development	F-IR-42-RE (ATIG-47)
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### Turbojets-Components

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### Turbojets-Starters

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	The Riedel Highly Volatile Fuel Starter of Jet Power Plant 109-011 A-0	F-TS-544-RE

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### PROCUREMENT

Schmitt, V.A., Maj, AC	Japanese Army Air Force Procurement, Program, Policies and Procedure	F-IR-122-RE (ATIG-311)
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### PROPELLERS

Lasswell, Philip M., 2nd Lt, AC	Propeller Section at Tachikawa	F-IR-49-RE (ATIG-58)
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Lasswell, Philip M., 2nd Lt, AC	Sumitomo Propeller Developments	F-IR-62-RE (ATIG-83)
Morse, J.H., Comdr, USN	Propeller Design, Development, and Test	F-IR-45-RE
Quick, A.W.	Aerodynamics and Flight Mechanics in the Development of Propellers	F-TS-757-RE

### SOURCE REFERENCES

	German English Dictionary	Issue No. 2
	Guide to Publication Standards for Intelligence (T-2) Reports	A-SS00-DN
Hille, Wilhelm	Information for the Aircraft Builder on Aircraft Drawings	F-TS-762-RE
	Subject Classification of Aeronautical Literature (ZWB System)	F-TS-457-RE

## STRUCTURES

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Gunther, S. and Root, L.R.	Questionnaire on Structural Matters; Answers to Questionnaire	F-TS-678-RE
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## THERMODYNAMICS

Noeggerth, Wolfgang	Chart for Thermo Dynamical Calculations for Tech Gases up to 3000°C (Project No. NFE-39)	F-TR-2108-ND
Schmidt, E., Eckert, E. and Grigull, U.	Heat Transfer by Liquids Near the Critical State	F-TS-527-RE
	Report on the Thermodynamic Cal- culation of the State of Combus- tion Gases XXII; Methanol- Chlorotrifluoride Reaction	F-TS-1027-RE

## TRAINING

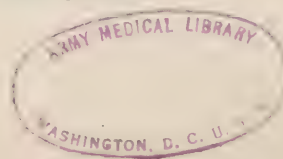
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